

## ABSTRACT OF THE INVENTION

The invention is a method for servicing subscriber ends by utilizing virtual LAN on ATU-R of ADSL, which utilizes VLAN to generate a plurality of virtual connections in an ADSL connection, couples equipment of each subscriber end  
5 to a plurality of subscriber input/output (I/O) ports in ATU-R, adds a switching hub in the ATU-R for identifying tagged data in the virtual connections, connects each subscriber end in the virtual connections with the switching hub via Ethernet, and assigns each subscriber I/O port in the switching hub to one of the virtual connections having a distinct tag. By utilizing this, each virtual circuit may  
10 service different subscriber ends, ensure no data packet of each subscriber end assigned to other subscriber line on the same ATU-R.